

CLAIMS:

1. An electric personal care device for dispensing a liquid, comprising:
 - a housing having a liquid outlet;
 - a liquid channel (16) leading to the liquid outlet (12);
 - a pump (5) for causing liquid displacement through the liquid channel to the liquid outlet;
 - 5 a motor (1) operatively coupled to the hair-removing device (13) for driving movement of at least a movable part of the device;
 - 10 a transmission coupled to the motor (1) to be driven thereby and coupled to the pump (5) for imparting movement to at least a movable part of the pump while in an 'on' condition, thereby causing pumping action by the pump; and
 - 15 a control structure (4,7-9) operable between at least a first and a second operating condition for dispensing liquid at different rates; characterized in that the control structure (4,7-9) is arranged for controlling amounts of movement transmitted by the transmission to at least the movable part of the pump such that, in the first and second operating conditions, different amounts of movement are transmitted by the transmission to at least the movable part of the pump.
 2. A device according to claim 1, wherein the pump has a resilient wall (10) at least partially enclosing an internal space communicating with or part of the liquid channel;
 - 20 the transmission further comprises a pushing member (3) which is at least partially movable between an pushing position and a return position, in which pushing position the pushing member keeps the resilient wall displaced inwardly with respect to the internal space compared with a position of the resilient wall when the pushing member is in its return position; and wherein the control structure (4) is arranged to control the displacement of the resilient wall between the positions associated with the pushing and return positions of the pushing member such that, in said first and second operating conditions, different amounts of displacement of the resilient wall between the positions associated with the pushing and return positions of the pushing member are caused.
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3. A device according to claim 2, wherein said control structure comprises a control member (4) of which a portion is located between said pushing member and said resilient wall (10), said portion between said pushing member and said resilient wall (10) having a different thickness in a direction from the pushing member (3) to the resilient wall
5 said first condition than in said second operating condition.

4. A device according to claim 3, wherein said control member (4) is movable in a direction transverse to said direction from the pushing member (3) to the resilient wall.

10 5. A device according to claim 3 or 4, wherein said control member (4) is wedge-shaped.

15 6. A device according to any one of claims 3-5, wherein said control structure further comprises a strip (7) projecting from said control member (4) in a direction transverse to said direction from the pushing member (3) to the resilient wall.

20 7. A device according to claim 6, wherein a portion of said strip (7) remote from said control member (4) extends along a curve contiguous with a next operable portion extending along an operating path, and wherein the apparatus has a housing of which portions directly adjacent to said operating path extend parallel to directly adjacent portions of said operating path.

25 8. A device according to claim 6 or 7, wherein a portion of said strip (7) remote from said control member (7) extends along a curve about said pump (5) and contiguous with a next operable portion extending along an operating path.

30 9. A device according to any one of the claims 6-8, wherein the strip (7) is part of or forms an endless-belt having portions extending from the control member (4) in opposite directions.

10. A device according to any one of the preceding claims, wherein said pushing member (3) is connectable to a hair trimmer for driving the hair trimmer.

11. A device according to claim 10, wherein said pushing member (3) comprises an elongated member which has a distal portion (31) and a proximal portion (32), which distal portion is connectable to the hair trimmer device and which proximal portion is coupled to the motor (1) and which elongated member is pivotable about a rotation axis (14) at a distance from the distal end.

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12. A device according to claim 2 and any one of the preceding claims, wherein said distal portion (31) of the pushing member (3) in at least one of said pushing and return positions pushes towards said resilient wall (10).

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13. A device according to any one of claims 7-10, wherein at least a portion of the liquid channel is disconnectable from and reconnectable to the device.